

BIT 7	BIT 6	BIT 5	BIT 4	BIT 3	BIT 2	BIT 1
DATA	DATA	DATA	DATA	P <sub>1,6,5</sub>	P <sub>7,6,4</sub>	P <sub>7,5,4</sub>

FIGURE 1

1	1	0	1	0	1	0
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FIGURE 3

0	1	0	0	0	1	0
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FIGURE 4

0	1	1	0	0	1	1
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FIGURE 5

0	1	0	0	0	1	0
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FIGURE 6

0	1	1	1	0	0	0
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FIGURE 8

0	1	0	1	0	0	0
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FIGURE 9

IDENTIFY  $X$  BIT(S) IN THE  
UN-PROGRAMMED STATE, WHERE  
"X" IS SUFFICIENT TO INTRODUCE  
AN UNCORRECTABLE ERROR IN  
THE WORD

20  
✓

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SWITCH THE  $X$  BIT(S) FROM THE  
UN-PROGRAMMED STATE TO THE  
PROGRAMMED STATE

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FIGURE 2

IDENTIFY A SINGLE BIT THAT IS  
IN THE UNPROGRAMMED STATE

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GENERATE A SECOND WORD, WHEREIN  
ALL OF THE DATA BITS IN THE SECOND  
WORD ARE IN THE UN-PROGRAMMED  
STATE EXCEPT FOR THE BIT THAT  
CORRESPONDS TO THE SINGLE BIT

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✓

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OVERWRITE THE FIRST WORD WITH  
THE SECOND WORD

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FIGURE 7